Patent claims:

- 1. A mixture composed of hydroxyalkyl phosphonates and chlorinated phosphoric esters.
- 2. The mixture as claimed in claim 1, which comprises from 30 to 70% by weight of hydroxyalkyl phosphonates and from 70 to 30% by weight of chlorinated phosphoric esters.
- 3. The mixture as claimed in claim 1 or 2, which comprises from 40 to 60% by weight of hydroxyalkyl phosphonates and from 60 to 40% by weight of chlorinated phosphoric esters.
- 4. The mixture as claimed in one or more of claims 1 to 3, which comprises from 45 to 55% by weight of hydroxyalkyl phosphonates and from 55 to 45% by weight of chlorinated phosphoric esters.
- 5. The mixture as claimed in one or more of claims 1 to 4, wherein the hydroxyalkyl phosphonates have the formula I

$$R_1O \leftarrow \begin{bmatrix} O \\ P \\ R_2 \end{bmatrix} - O R_5$$

(1)

where

u denotes a chain length of from 0 to 10

 R_1 and R_5 are identical or different, and are a hydroxy-containing radical of the formula II

$$\begin{array}{c|c}
 & R_7 \\
 & CH - CH - O \\
\hline
 & \overline{a}
\end{array}$$
(II)

 R_2 and R_4 are identical or different, and are an alkyl, aryl, or alkylaryl group having from 1 to 12 carbon atoms, and R_3 is a radical of the formula III

$$\begin{array}{c|c}
R_8 & R_9 \\
\hline
O-CH-CH \\
\hline
\hline
1 & (III)
\end{array}$$

ā denotes an average chain length of from 0 to 4, $\bar{1}$ denotes an average chain length of from 0 to 4, and R_6 , R_7 , R_8 , and R_9 are identical or different and, independently of one another, are H or an alkyl group having from 1 to 6 carbon atoms.

- 6. The mixture as claimed in one or more of claims 1 to 5, wherein u denotes a chain length of 0 or 1 \bar{a} denotes an average chain length of from 1 to 2, \bar{a} denotes an average chain length of from 1 to 2, and \bar{a} and \bar{a} are identical or different and, independently of one another, are an alkyl group having from 1 to 5 carbon atoms, and \bar{a} R₆, R₇, R₈, and R₉ are identical or different and, independently of one another, are H or an alkyl group having 1 or 2 carbon atoms.
- 7. The mixture as claimed in one or more of claims 1 to 6, wherein the hydroxyalkyl phosphonates comprise oxethylated methanephosphonic acid,

oxethylated ethanephosphonic acid, propoxylated methanephosphonic acid, propoxylated ethanephosphonic acid, oxethylated propanephosphonic acid, propoxylated propanephosphonic acid, diethylene glycol bis(hydroxyalkoxy) methanephosphonate, and/or ethylene glycol bis(hydroxyalkoxy) ethanephosphonate.

- 8. The mixture as claimed in one or more of claims 1 to 7, wherein the halogenated phosphoric esters comprise tris(2-chloroethyl) phosphate, tris(2-chloroisopropyl) phosphate, dichloro isopropyl phosphate, trisdichloroisopropyl phosphate, and/or tetrakis(2-chloroethyl) ethylenediphosphate.
- 9. A process for preparing flame-retardant flexible polyurethane foams with mixtures composed of hydroxyalkyl phosphonates and chlorinated phosphoric esters as claimed in one or more of claims 1 to 8, which comprises reacting organic polyisocyanates with compounds having at least two hydrogen atoms reactive toward isocyanates, with conventional blowing agents, stabilizers, activators, and/or other conventional auxiliaries and additives, in the presence of halogen-free hydroxyalkyl phosphonates of the formula I and chlorinated phosphoric esters.
- 10. A process for preparing flame-retardant flexible polyurethane foams with mixtures composed of hydroxyalkyl phosphonates and chlorinated phosphoric esters as claimed in one or more of claims 1 to 8, which comprises reacting organic polyisocyanates with compounds having at least two hydrogen atoms reactive toward isocyanates, with conventional blowing agents, stabilizers, activators, and/or other conventional auxiliaries and additives, in the presence of mixtures of halogen-free hydroxyalkyl phosphonates of the formula I and chlorinated phosphoric esters.
- 11. The process as claimed in claim 9 or 10, wherein mixtures composed of hydroxyalkyl phosphonates of the formula I and chlorinated phosphoric

esters are used in an amount of from 0.01 to 50 parts by weight, based on the resultant flexible polyurethane foam.

- 12. The process as claimed in one or more of claims 9 to 11, wherein mixtures composed of hydroxyalkyl phosphonates of the formula I and chlorinated phosphoric esters are used in an amount of from 0.5 to 20 parts by weight, based on the resultant flexible polyurethane foam.
- 13. The process as claimed in one or more of claims 9 to 12, wherein mixtures composed of hydroxyalkyl phosphonates of the formula I and chlorinated phosphoric esters are used in an amount of from 0.5 to 10 parts by weight, based on the resultant flexible polyurethane foam.
- 14. The process as claimed in one or more of claims 9 to 13, wherein the hydroxyalkyl phosphonates of the formula I comprise compounds liquid at processing temperature.
- 15. The process as claimed in one or more of claims 9 to 14, wherein the hydroxyalkyl phosphonates of the formula I comprise compounds reactive toward isocyanates.
- 16. The use of mixtures composed of hydroxyalkyl phosphonates of the formula I and chlorinated phosphoric esters, as flame retardants.
- 17. The use of mixtures of hydroxyalkyl phosphonates of the formula I and chlorinated phosphoric esters, as flame retardants for producing low-emission flame-retardant flexible polyurethane foams.
- 18. The use as claimed in claim 16 or 17, wherein the materials comprise from 30 to 70% by weight of hydroxyalkyl phosphonates and from 70 to 30% by weight of chlorinated phosphoric esters.
- 19. The use as claimed in claim 16 or 17, wherein the materials comprise

from 40 to 60% by weight of hydroxyalkyl phosphonates and from 60 to 40% by weight of chlorinated phosphoric esters.

20. The use as claimed in claim 16 or 17, wherein the materials comprise from 45 to 55% by weight of hydroxyalkyl phosphonates and from 55 to 45% by weight of chlorinated phosphoric esters.